



**United States Environmental Protection Agency  
Region 9 Laboratory**

**1337 S. 46th Street Building 201  
Richmond, CA 94804**

**Date:** 2/16/2012

**Subject:** Analytical Testing Results - Project R33911  
SDG: 12039A

**From:** Brenda Bettencourt, Director  
EPA Region 9 Laboratory  
MTS-2

**To:** Richard Fetzer  
US EPA Region 3, Eastern Response Branch  
3HS31

Attached are the results from the analysis of samples from the **Dimock Residential Groundwater** project. These data have been reviewed in accordance with EPA Region 9 Laboratory policy.

A full documentation package for these data, including raw data and sample custody documentation, is on file at the EPA Region 9 Laboratory. If you would like to request additional review and/or validation of the data, please contact Eugenia McNaughton at the Region 9 Quality Assurance Office.

If you have any questions, please ask for Richard Bauer, the Lab Project Manager at (510)412-2300.

**Analyses included in this report:**

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Purgeable Petroleum Hydrocarbons by GC/FID



United States Environmental Protection Agency  
**Region 9 Laboratory**

1337 S. 46th Street, Building 201, Richmond, CA 94804  
Phone:(510) 412-2300 Fax:(510) 412-2302

**Project Manager:** Richard Fetzner

**Project Number:** R33911

**Project:** Dimock Residential Groundwater

**US EPA Region 3, Eastern Response Branch**

**100 Gypsum Road**

**Stroudsburg PA, 18360**

**SDG:** 12039A

**Reported:** 02/16/12 14:37

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
HW31	1202020-03	Water	02/06/12 18:20	02/08/12 09:50
HW31-P	1202020-04	Water	02/06/12 18:28	02/08/12 09:50
HW31z	1202020-05	Water	02/06/12 18:20	02/08/12 09:50
TB25	1202020-06	Water	02/06/12 10:25	02/08/12 09:50
FB11	1202020-07	Water	02/06/12 14:36	02/08/12 09:50
HW30	1202020-08	Water	02/06/12 14:34	02/08/12 09:50
HW30-P	1202020-09	Water	02/06/12 15:00	02/08/12 09:50
TB26	1202020-10	Water	02/06/12 10:30	02/08/12 09:50
HW15a	1202020-11	Water	02/07/12 10:47	02/08/12 09:50
HW15a-P	1202020-12	Water	02/07/12 10:55	02/08/12 09:50
TB28	1202020-13	Water	02/07/12 07:05	02/08/12 09:50
FB12	1202023-01	Water	02/07/12 13:35	02/09/12 10:00
HW51	1202023-02	Water	02/07/12 13:48	02/09/12 10:00
HW51-P	1202023-03	Water	02/07/12 13:56	02/09/12 10:00
TB27	1202023-04	Water	02/07/12 07:00	02/09/12 10:00
HW47	1202023-05	Water	02/08/12 11:50	02/09/12 10:00
HW47-P	1202023-06	Water	02/08/12 12:25	02/09/12 10:00
TB29	1202023-07	Water	02/08/12 07:05	02/09/12 10:00
FB13	1202023-08	Water	02/08/12 09:00	02/09/12 10:00
HW38	1202023-09	Water	02/08/12 10:41	02/09/12 10:00
HW38-P	1202023-10	Water	02/08/12 10:52	02/09/12 10:00
TB30	1202023-11	Water	02/08/12 07:10	02/09/12 10:00

**SDG ID 12039A**

Purgeable Petroleum Hydrocarbons:

Samples 1202023-08, -09, -10, and -11 were received at 8 degrees C, which is above the recommended temperature range of 2 - 6 degrees C. No significant impact is anticipated on the sample results.

Insufficient sample volume was provided to perform matrix spike / matrix spike duplicate (MS/MSD) analysis on any samples for this sample delivery group.

**Work Order(s)**

**1202020**

**1202023**



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## Sample Results

Analyte	Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
<b>Lab ID: 1202020-03</b>						<b>Water - Sampled: 02/06/12 18:20</b>			
<b>Sample ID: HW31</b>						<b>Purgeable Petroleum Hydrocarbons by EPA Method 8015C</b>			
TPH as Gasoline		ND	U	50	ug/L	B2B0035	02/08/12	02/08/12	8015C/SOP380
<i>Surrogate: a,a,a-Trifluorotoluene</i>			109 %	76-121%		"	"	"	
<b>Lab ID: 1202020-04</b>						<b>Water - Sampled: 02/06/12 18:28</b>			
<b>Sample ID: HW31-P</b>						<b>Purgeable Petroleum Hydrocarbons by EPA Method 8015C</b>			
TPH as Gasoline		ND	U	50	ug/L	B2B0035	02/08/12	02/08/12	8015C/SOP380
<i>Surrogate: a,a,a-Trifluorotoluene</i>			110 %	76-121%		"	"	"	
<b>Lab ID: 1202020-05</b>						<b>Water - Sampled: 02/06/12 18:20</b>			
<b>Sample ID: HW31z</b>						<b>Purgeable Petroleum Hydrocarbons by EPA Method 8015C</b>			
TPH as Gasoline		ND	U	50	ug/L	B2B0035	02/08/12	02/08/12	8015C/SOP380
<i>Surrogate: a,a,a-Trifluorotoluene</i>			110 %	76-121%		"	"	"	
<b>Lab ID: 1202020-06</b>						<b>Water - Sampled: 02/06/12 10:25</b>			
<b>Sample ID: TB25</b>						<b>Purgeable Petroleum Hydrocarbons by EPA Method 8015C</b>			
TPH as Gasoline		ND	U	50	ug/L	B2B0035	02/08/12	02/08/12	8015C/SOP380
<i>Surrogate: a,a,a-Trifluorotoluene</i>			110 %	76-121%		"	"	"	
<b>Lab ID: 1202020-07</b>						<b>Water - Sampled: 02/06/12 14:36</b>			
<b>Sample ID: FB11</b>						<b>Purgeable Petroleum Hydrocarbons by EPA Method 8015C</b>			
TPH as Gasoline		ND	U	50	ug/L	B2B0035	02/08/12	02/08/12	8015C/SOP380
<i>Surrogate: a,a,a-Trifluorotoluene</i>			110 %	76-121%		"	"	"	
<b>Lab ID: 1202020-08</b>						<b>Water - Sampled: 02/06/12 14:34</b>			
<b>Sample ID: HW30</b>						<b>Purgeable Petroleum Hydrocarbons by EPA Method 8015C</b>			
TPH as Gasoline		ND	U	50	ug/L	B2B0035	02/08/12	02/08/12	8015C/SOP380
<i>Surrogate: a,a,a-Trifluorotoluene</i>			109 %	76-121%		"	"	"	
<b>Lab ID: 1202020-09</b>						<b>Water - Sampled: 02/06/12 15:00</b>			
<b>Sample ID: HW30-P</b>						<b>Purgeable Petroleum Hydrocarbons by EPA Method 8015C</b>			
TPH as Gasoline		ND	U	50	ug/L	B2B0035	02/08/12	02/08/12	8015C/SOP380
<i>Surrogate: a,a,a-Trifluorotoluene</i>			108 %	76-121%		"	"	"	
<b>Lab ID: 1202020-10</b>						<b>Water - Sampled: 02/06/12 10:30</b>			
<b>Sample ID: TB26</b>						<b>Purgeable Petroleum Hydrocarbons by EPA Method 8015C</b>			
TPH as Gasoline		ND	U	50	ug/L	B2B0035	02/08/12	02/08/12	8015C/SOP380
<i>Surrogate: a,a,a-Trifluorotoluene</i>			110 %	76-121%		"	"	"	
<b>Lab ID: 1202020-11</b>						<b>Water - Sampled: 02/07/12 10:47</b>			
<b>Sample ID: HW15a</b>						<b>Purgeable Petroleum Hydrocarbons by EPA Method 8015C</b>			
TPH as Gasoline		ND	U	50	ug/L	B2B0035	02/08/12	02/08/12	8015C/SOP380



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**Project:** Dimock Residential Groundwater

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**100 Gypsum Road**  
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## Sample Results

Analyte	Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
<b>Lab ID:</b> 1202020-11									<b>Water - Sampled: 02/07/12 10:47</b>
<b>Sample ID:</b> HW15a									<b>Purgeable Petroleum Hydrocarbons by EPA Method 8015C</b>
Surrogate: a,a,a-Trifluorotoluene		109 %		76-121%		B2B0035	02/08/12	02/08/12	
<b>Lab ID:</b> 1202020-12									<b>Water - Sampled: 02/07/12 10:55</b>
<b>Sample ID:</b> HW15a-P									<b>Purgeable Petroleum Hydrocarbons by EPA Method 8015C</b>
TPH as Gasoline		ND	U	50	ug/L	B2B0035	02/08/12	02/08/12	8015C/SOP380
Surrogate: a,a,a-Trifluorotoluene		107 %		76-121%		"	"	"	
<b>Lab ID:</b> 1202020-13									<b>Water - Sampled: 02/07/12 07:05</b>
<b>Sample ID:</b> TB28									<b>Purgeable Petroleum Hydrocarbons by EPA Method 8015C</b>
TPH as Gasoline		ND	U	50	ug/L	B2B0035	02/08/12	02/08/12	8015C/SOP380
Surrogate: a,a,a-Trifluorotoluene		108 %		76-121%		"	"	"	
<b>Lab ID:</b> 1202023-01									<b>Water - Sampled: 02/07/12 13:35</b>
<b>Sample ID:</b> FB12									<b>Purgeable Petroleum Hydrocarbons by EPA Method 8015C</b>
TPH as Gasoline		ND	U	50	ug/L	B2B0040	02/09/12	02/09/12	8015C/SOP380
Surrogate: a,a,a-Trifluorotoluene		105 %		76-121%		"	"	"	
<b>Lab ID:</b> 1202023-02									<b>Water - Sampled: 02/07/12 13:48</b>
<b>Sample ID:</b> HW51									<b>Purgeable Petroleum Hydrocarbons by EPA Method 8015C</b>
TPH as Gasoline		ND	U	50	ug/L	B2B0040	02/09/12	02/09/12	8015C/SOP380
Surrogate: a,a,a-Trifluorotoluene		108 %		76-121%		"	"	"	
<b>Lab ID:</b> 1202023-03									<b>Water - Sampled: 02/07/12 13:56</b>
<b>Sample ID:</b> HW51-P									<b>Purgeable Petroleum Hydrocarbons by EPA Method 8015C</b>
TPH as Gasoline		ND	U	50	ug/L	B2B0040	02/09/12	02/09/12	8015C/SOP380
Surrogate: a,a,a-Trifluorotoluene		107 %		76-121%		"	"	"	
<b>Lab ID:</b> 1202023-04									<b>Water - Sampled: 02/07/12 07:00</b>
<b>Sample ID:</b> TB27									<b>Purgeable Petroleum Hydrocarbons by EPA Method 8015C</b>
TPH as Gasoline		ND	U	50	ug/L	B2B0040	02/09/12	02/09/12	8015C/SOP380
Surrogate: a,a,a-Trifluorotoluene		109 %		76-121%		"	"	"	
<b>Lab ID:</b> 1202023-05									<b>Water - Sampled: 02/08/12 11:50</b>
<b>Sample ID:</b> HW47									<b>Purgeable Petroleum Hydrocarbons by EPA Method 8015C</b>
TPH as Gasoline		ND	U	50	ug/L	B2B0040	02/09/12	02/09/12	8015C/SOP380
Surrogate: a,a,a-Trifluorotoluene		110 %		76-121%		"	"	"	
<b>Lab ID:</b> 1202023-06									<b>Water - Sampled: 02/08/12 12:25</b>
<b>Sample ID:</b> HW47-P									<b>Purgeable Petroleum Hydrocarbons by EPA Method 8015C</b>
TPH as Gasoline		ND	U	50	ug/L	B2B0040	02/09/12	02/09/12	8015C/SOP380
Surrogate: a,a,a-Trifluorotoluene		108 %		76-121%		"	"	"	
<b>Lab ID:</b> 1202023-07									<b>Water - Sampled: 02/08/12 07:05</b>



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### Sample Results

Analyte	Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
<b>Lab ID: 1202023-07</b>						<b>Water - Sampled: 02/08/12 07:05</b>			
<b>Sample ID:</b> TB29						<b>Purgeable Petroleum Hydrocarbons by EPA Method 8015C</b>			
TPH as Gasoline		ND	U	50	ug/L	B2B0040	02/09/12	02/09/12	8015C/SOP380
<i>Surrogate: a,a,a-Trifluorotoluene</i>			104 %	76-121%		"	"	"	
<b>Lab ID: 1202023-08</b>						<b>Water - Sampled: 02/08/12 09:00</b>			
<b>Sample ID:</b> FB13						<b>Purgeable Petroleum Hydrocarbons by EPA Method 8015C</b>			
TPH as Gasoline		ND	U	50	ug/L	B2B0040	02/09/12	02/09/12	8015C/SOP380
<i>Surrogate: a,a,a-Trifluorotoluene</i>			107 %	76-121%		"	"	"	
<b>Lab ID: 1202023-09</b>						<b>Water - Sampled: 02/08/12 10:41</b>			
<b>Sample ID:</b> HW38						<b>Purgeable Petroleum Hydrocarbons by EPA Method 8015C</b>			
TPH as Gasoline		ND	U	50	ug/L	B2B0040	02/09/12	02/09/12	8015C/SOP380
<i>Surrogate: a,a,a-Trifluorotoluene</i>			112 %	76-121%		"	"	"	
<b>Lab ID: 1202023-10</b>						<b>Water - Sampled: 02/08/12 10:52</b>			
<b>Sample ID:</b> HW38-P						<b>Purgeable Petroleum Hydrocarbons by EPA Method 8015C</b>			
TPH as Gasoline		ND	U	50	ug/L	B2B0040	02/09/12	02/09/12	8015C/SOP380
<i>Surrogate: a,a,a-Trifluorotoluene</i>			109 %	76-121%		"	"	"	
<b>Lab ID: 1202023-11</b>						<b>Water - Sampled: 02/08/12 07:10</b>			
<b>Sample ID:</b> TB30						<b>Purgeable Petroleum Hydrocarbons by EPA Method 8015C</b>			
TPH as Gasoline		ND	U	50	ug/L	B2B0040	02/09/12	02/09/12	8015C/SOP380
<i>Surrogate: a,a,a-Trifluorotoluene</i>			111 %	76-121%		"	"	"	



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**Quality Control**

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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**Batch B2B0035 - 5030 P&T TPH-G - TPH - Purgeable**

**Prepared & Analyzed: 02/08/12**

**Purgeable Petroleum Hydrocarbons by EPA Method 8015C - Quality Control**

**Blank (B2B0035-BLK1)**

TPH as Gasoline	ND	U		50 ug/L						
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*Surrogate: a,a,a-Trifluorotoluene*

138

"

125

110

76-121

**LCS (B2B0035-BS1)**

TPH as Gasoline	534			50 ug/L	500		107	75-114		200
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*Surrogate: a,a,a-Trifluorotoluene*

142

"

125

114

76-121

**Batch B2B0040 - 5030 P&T TPH-G - TPH - Purgeable**

**Prepared & Analyzed: 02/09/12**

**Purgeable Petroleum Hydrocarbons by EPA Method 8015C - Quality Control**

**Blank (B2B0040-BLK1)**

TPH as Gasoline	ND	U		50 ug/L						
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*Surrogate: a,a,a-Trifluorotoluene*

137

"

125

110

76-121

**LCS (B2B0040-BS1)**

TPH as Gasoline	509			50 ug/L	500		102	75-114		200
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*Surrogate: a,a,a-Trifluorotoluene*

140

"

125

112

76-121



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**Qualifiers and Comments**

U Not Detected

NR Not Reported

RE1, RE2, etc: Result is from a sample re-analysis.